

DERWENT-ACC-NO: 1992-028014

DERWENT-WEEK: 199804

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TITLE: High response resin type thermal transfer
material - comprises heat-resistant support, then
successively low mol.wt. resin release layer, thermal transfer
layer contg. binder and colourant

PATENT-ASSIGNEE: TOPPAN PRINTING CO LTD[TOPP]

PRIORITY-DATA: 1990JP-0074554 (March 23, 1990)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE |
|-----------------|-------------------|----------|
| PAGES MAIN-IPC | | |
| JP 03274186 A | December 5, 1991 | N/A |
| 009 N/A | | |
| JP 2692329 B2 | December 17, 1997 | N/A |
| 007 B41M 005/30 | | |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO |
|----------------|-----------------|----------------|
| APPL-DATE | | |
| JP 03274186A | N/A | 1990JP-0074554 |
| March 23, 1990 | | |
| JP 2692329B2 | N/A | 1990JP-0074554 |
| March 23, 1990 | | |
| JP 2692329B2 | Previous Publ. | JP 3274186 |
| N/A | | |

INT-CL (IPC): B41M005/30, B41M005/40

ABSTRACTED-PUB-NO: JP 03274186A

BASIC-ABSTRACT:

Recording material comprises a support having heat withstandability with successively a release layer, comprising mainly a low MW resin of which softening point is 60-150 deg.C and MW 500-5000 and an organic or inorganic

filler and a thermal transfer layer contg. a binder resin, a colourant and a wear-resistant material where the binder resin comprises mixt. of a higher MW resin with glass transition temp. 50-110 deg.C and MW at least 8000 and a lower MW resin with softening point 60-150 deg.C and MW 500-5000.

The release layer pref. comprises 70-95 wt.% of a low MW resin (e.g. epoxy resin), 5-20 wt.% of filler (e.g. Ca-carbonate) and 0-20 wt.% of wax (e.g. carnauba wax) dispersed in a solvent (e.g. MEK) and applied on the support by e.g. a gravure coater. The thermal transfer layer pref. comprises 10-30 wt.% colourant, 40-80 wt.% binder resin (consisting of 20-70 wt.% of the high MW resin and rest of the low MW resin) and 5-30 wt.% of the wear-resistant material (e.g. Zn-stearate).

USE/ADVANTAGE - The material is used for forming (colour) image on a plastic sheet surface. Exhibits high heat response and transfers image accurately. The image formed stands rubbing and scratching well.

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS: HIGH RESPOND RESIN TYPE THERMAL TRANSFER MATERIAL
COMPRISE HEAT

RESISTANCE SUPPORT SUCCESSION LOW MOLECULAR WEIGHT RESIN
RELEASE

LAYER THERMAL TRANSFER LAYER CONTAIN BIND COLOUR

DERWENT-CLASS: A89 G05 P75

CPI-CODES: A12-W07F; G05-F01;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0437U; 1278U ; 1377U ; 5087U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0036 0037 0060 0183 0218 0222 0231 1282 1319 1462 1985
2211 2218

2315 2318 2423 2427 2437 2507 2511 2514 2585 2600 2657 2667 2682 2726
2814 3178

3253

Multipunch Codes: 014 04- 040 06- 075 08- 10- 143 144 15- 155 163 166